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U. S. DEPARTMENT OF COMMERCE
NATIONAL BUREAU OF STANDARDS
Washington

Letter
Circular
LC 478

(October 13, 1936)

LIST OF PUBLISHED MATERIAL RELATING TO PAINT, PAINTING,
VARNISH, LACQUER, BITUMENS AND ALLIED SUBJECTS

<u>Contents</u>	Page
General information	1
Publications from Government Departments	2
Sources of abstracts of original articles	10
Suggested technical journals and trade magazines	11
Publications of scientific societies and trade associations	12
Publications of some pigment producers	14
Books classified into groups or subjects	16

GENERAL INFORMATION

This letter circular is intended to be of assistance to persons who write to this Bureau requesting sources of information on some subject relating to paint, varnish and bituminous materials. It includes a list of publications issued by Federal and other Government agencies, sources of abstracts of original articles, a list of selected technical journals and trade magazines, a list of publications of technical societies and trade associations, and finally a list of selected books on paint and painting. When inquiries concern specific subjects, for example "wood finishing", a check mark will be placed opposite the sources of information that may be helpful.

The Federal Government publications listed may be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., unless otherwise noted, at the prices given. Those listed as "Free" may be obtained without charge from the department issuing them. The rules of the Government Printing Office require that remittances be made in advance of shipment of publications, either by coupons, sold in sets of 20 for \$1 and

good until used, or by check or money order payable to the Superintendent of Documents. Currency may be sent at sender's risk. Postage stamps, foreign money, and defaced or smooth coins are not acceptable.

Postage is not required for mailing within the United States, including Alaska, Guam, Hawaii, Panama Canal Zone, Philippine Islands, and Puerto Rico, nor for shipment to the Republic of Panama, Samoa (U.S.), Virgin Islands (U.S.), Canada, Cuba, Mexico, and Newfoundland (including Labrador). For mailing to all other countries an additional amount of about one-third of the purchase price is required. Remittances from foreign countries should be by international money order, or draft on an American bank, payable to the Superintendent of Documents.

The Superintendent of Documents, Washington, D. C., is authorized by law to sell copies of Government publications and to allow a discount of 25 percent to book dealers and purchasers of 100 or more publications, on condition that the purchasers will adhere to the public sales price set by the Superintendent of Documents and the publications shall not be overprinted with any advertising matter.

"Free" Government publications are not obtainable, unless otherwise noted, from the Superintendent of Documents.

Publications prepared by trade associations and other organizations may be procured by writing directly to them at the addresses given.

GOVERNMENT DEPARTMENTS

U. S. DEPARTMENT OF AGRICULTURE,
WASHINGTON, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
FB 1452	5¢	Painting on the farm
L 62	5¢	Why some wood surfaces hold paint longer than others
-	25¢	Wood handbook (includes a chapter on painting and finishing wood)
C 128	10¢	Effectiveness of moisture-excluding coatings on wood

<u>Series</u>	<u>Price</u>	<u>Title</u>
B 898	15¢	Turpentine
C 110	5¢	Specific gravity and Baumé gravity tables for turpentine
FB 1157	5¢	Waterproofing and mildewproofing of cotton duck

U. S. DEPARTMENT OF AGRICULTURE,
FOREST PRODUCTS LABORATORY,
MADISON, WISCONSIN.

Mimeo. R1073	Free	Effect of extractive substances in certain woods on the durability of paint coatings
Mimeo. R1053	Free	Behavior of house paints on different woods
Mimeo. R977	Free	Adhesion in the painting and in the gluing of wood
Mimeo. R1011	Free	Testing house paints for durability.
R1015	Free	Effect of aluminum priming paint on the durability of house paints on wood
Mimeo. R1044	Free	Special priming paints for wood
Mimeo. R935, R1014, R1045	Free	First, Third, and Fourth Progress Reports. Study of priming-coat reductions for painting new wood surfaces
Mimeo. R1064	Free	What paint salesmen can do to prevent paint complaints
Mimeo. R1029	Free	Painting exterior woodwork
Mimeo. R962	Free	When and how to paint farm buildings
Mimeo. R921	Free	Paint thinners I. Effect of different paint thinners on the durability of house paints in outdoor exposure tests
Mimeo. R974	Free	Effectiveness of paints in retarding moisture absorption by wood

<u>Series</u>	<u>Price</u>	<u>Title</u>
Mimeo. R6	Free	Some causes of blistering and peeling of paint on house siding
Mimeo. R1051	Free	Durability of paint on wood treated with zinc chloride
TN 181	Free	Coatings for minimizing changes in the moisture content of wood
TN 186	Free	Coatings that prevent end checks
TN 221	Free	Weathering and decay
TN 228	Free	Aluminum coatings for moisture proofing wood
TN D-12	Free	Uneven coatings on wood cause warping

U.S. DEPARTMENT OF COMMERCE,
BUREAU OF THE CENSUS,
WASHINGTON, D. C.

-	5¢	Animal and vegetable fats and oils - Production, consumption, imports, exports and stocks. Quarterly for calendar years 1931 to 1935
-	5¢	Paint, varnish and lacquer production (1933)
-	5¢	Wholesale trade in paints and varnishes (1932)
-	-	Census of manufacturers (1935 being compiled)

U.S. DEPARTMENT OF COMMERCE,
BUREAU OF FISHERIES,
WASHINGTON, D. C.

S-41	Free	Selected bibliography of papers on fish oils
S-49	Free	Uses of fish oils
S-200	Free	List of publications
S-178	Free	Fish oils
S-212	Free	Pearl essence
S-234	Free	Copper sulphate or bluestone as a net preservative

<u>Series</u>	<u>Price</u>	<u>Title</u>
S-330	Free	Net preservative research, 1932
S-335	Free	Net preservative research, 1933

U.S. DEPARTMENT OF COMMERCE,
BUREAU OF FOREIGN & DOMESTIC COMMERCE,
WASHINGTON, D. C.

The Chemical Division sponsors the following publications, among others, and payment for subscriptions is made directly to the Bureau of Foreign and Domestic Commerce.

<u>Series</u>	<u>Price</u>	<u>Title</u>
-	Free	Digest of trade hints for paint and varnish merchants
Pub. 2810	\$1.00 per year	Paint pigments, U. S. exports of (issued monthly)
Pub. 2811	\$1.00 per year	Paints, varnishes and nitrocellulose lacquers, U. S. exports of (issued monthly)
Pub. 2816	\$1.00 per year	Naval stores and linseed oil, U. S. exports of (issued monthly)
Pub. 2854	\$1.00 per year	Specified varnish gums, naval stores and tung oil, U. S. imports of (issued monthly)
Pub. 2855	\$1.00 per year	Crude coal tar products and natural dyeing and tanning materials, U. S. imports of (issued monthly)
Pub. 2861	\$1.00 per year	Pigments, U. S. imports of (issued monthly)
Pub. 2880	\$1.50 per year	Coal tar finished products; dyes, medicinals, photographics, etc., U. S. imports of (issued monthly)
Pub. 2890	\$1.00 per year	Tung oil exports from Hankow, China to United States and other countries (issued monthly)
Trade Promotion No. 133	10¢	Tung oil (order this from Superintendent of Documents)
-	5¢	Profits from cost analysis in paint distribution (1932)

U.S. DEPARTMENT OF COMMERCE,
UNITED STATES PATENT OFFICE,
WASHINGTON, D. C.

The Patent Office will give information to inquirers concerning the number of patents on file relating to any reasonable subdivision of subject matter, and all patents (including foreign) can be obtained for ten cents each, sent directly to the Patent Office.

U. S. DEPARTMENT OF COMMERCE,
NATIONAL BUREAU OF STANDARDS,
WASHINGTON, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
LC 291	Free	Bureau of Standards publications on paint, varnish and bituminous materials

This letter circular lists all the publications of the Bureau on paint, varnish and bituminous materials, as well as a list of all Federal Specifications for these materials. Included in the list are the following publications:

T 274	10¢	Use of U. S. Government specification paints and paint materials, Tech. Pap. B.S. <u>19</u> , 27 (1924-25).
LC 304	Free	Painting plaster
LC 333	Free	Outside house painting
LC 334	Free	Spray painting
LC 422	Free	The painting of structural metal (steel, galvanized metal, tin plate, and copper)
LC 445	Free	Painting steam and hot water radiators
LC 464	Free	Wood and shingle stains

<u>Series</u>	<u>Price</u>	<u>Title</u>
TNB	5¢ per copy	Technical News Bulletin (issued monthly) Occasionally, short articles on paint appear in this bulletin. The articles may describe the results of a roof exposure test, the results of a short investigation, the development of a test method, etc.
JR	25¢ per copy	Journal of Research of the National Bureau of Standards (issued monthly) Important investigations are described in this publication.
M130	\$1.75	National Directory of Commodity Specifications. Misc. Pub. B.S. M130 (1932) An index of all commodity specifications, including pigments, paints and varnishes.

TIBM (Technical Information on Buildings Materials) Series.

Distribution is limited to Government officials and to architects, engineers, and home builders.

TIBM-9	Free	Concrete floor treatments
TIBM-11	Free	Paint for priming plaster surfaces
TIBM-18	Free	Painting plaster
TIBM-30	Free	Paint pigments - white
TIBM-31	Free	Paint pigments - black, red, and lakes
TIBM-32	Free	Paint pigments - yellow, brown, blue, green and bronze
TIBM-33	Free	Federal specification paint pigments and mixing formulas
TIBM-34	Free	Federal specification ready-mixed paints, semipaste paints and mixing formulas
TIBM-35	Free	Preparation of paints from paste and dry pigments
TIBM-36	Free	Preparation of paints from semipaste paints, thinning ready-mixed paints and preparation of water paints

<u>Series</u>	<u>Price</u>	<u>Title</u>
TIBM-39	Free	Types of decks adapted to bituminous built-up roofing
TIBM-40	Free	Materials used in bituminous built-up roofing
TIBM-43	Free	Aluminum paint

SUPERINTENDENT OF DOCUMENTS,
GOVERNMENT PRINTING OFFICE,
WASHINGTON, D. C.

All the various Federal Government publications for which prices are given are obtainable, unless otherwise noted, from this office. In addition, the Superintendent of Documents will send free, on application, price lists on various subjects. For example, Price List 75 covers all Federal specifications (including those on paint, varnish, and bituminous materials), while Price List 36 contains a list of Government periodicals for which subscriptions are taken.

DEPARTMENT OF THE INTERIOR,
BUREAU OF MINES,
WASHINGTON, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
	Free	List of publications
I.C. 6118	Free	Graphite, Part I, General information
I.C. 6122	Free	Graphite, Part II, Domestic & foreign deposits
I.C. 6123	Free	Graphite, Part III, Utilization of graphite
I.C. 6124	Free	Graphite, Part IV, Status of the American graphite industry
I.C. 6504	Free	Umber, sienna and other brown earth pigments
I.C. 6132	Free	Ocher and ochery earths
I.C. 6627	Free	Iron oxide pigments and mortar colors
I.C. 6861	Free	Trends in white pigment consumption (1936)
Bul. 370	15¢	Iron oxide pigments of the United States

<u>Series</u>	<u>Price</u>	<u>Title</u>
	\$2.00	Minerals Yearbook - 1936 (includes factual data on lead and zinc pigments, carbon black, asphalt, and related bitumens together with information on metals, non-metals, etc., in a bound book. Separate chapters on the individual subjects, for example on carbon black, will probably be available also.)

NAVY DEPARTMENT,
BUREAU OF CONSTRUCTION & REPAIR,
WASHINGTON, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
	15¢	Instructions for painting and cementing vessels of the U. S. Navy, general specifications, Appendix 6*

NAVY DEPARTMENT,
NAVAL AIRCRAFT FACTORY, PHILADELPHIA, PA., OR
BUREAU OF AERONAUTICS, WASHINGTON, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
ST-15B	Free	Tentative specifications for inspection of organic protective coatings
	Free	Index of specifications of the Bureau of Aeronautics

NAVY DEPARTMENT,
BUREAU OF SUPPLIES AND ACCOUNTS,
WASHINGTON, D. C.

On pages 61 and 62 of the above-mentioned Navy publication,* attention is invited to the list of leaflet specifications for paint ingredients. The leaflet specifications are obtainable free from the Bureau of Supplies and Accounts, Navy Department, Washington, D. C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
	Free	Index of specifications used by the Navy Department for Naval Stores and material

LC 478

WAR DEPARTMENT,
OFFICE OF THE QUARTERMASTER GENERAL,
WASHINGTON, D.C.

<u>Series</u>	<u>Price</u>	<u>Title</u>
-	Free	Index of United States Army and Federal specifications used by the War Department

NORTH DAKOTA REGULATORY DEPARTMENT,
STATE OF NORTH DAKOTA,
BISMARCK, NORTH DAKOTA.

<u>Series</u>	<u>Price</u>	<u>Title</u>
Bul. 45	Free	Paint Bulletin. Resumé of previous publications of this State dealing with test fence data. Recent analyses of paints and varnishes, by brand. North Dakota paint and varnish law.

OHIO STATE UNIVERSITY,
ENGINEERING EXPERIMENT STATION,
COLUMBUS, OHIO.

<u>Series</u>	<u>Price</u>	<u>Title</u>
Bul. 32	Free	Paint for the farm (1936). (contains useful information to the home owner).

ABSTRACTS OF ORIGINAL ARTICLES ON CURRENT LITERATURE

INCLUDING PATENTS

ABSTRACT REVIEW (devoted entirely to paint and related products)

Published every other month by the National Paint, Varnish and Lacquer Association, Inc., 2201 New York Avenue, N.W., Washington, D. C.

CHEMICAL ABSTRACTS

Published semi-monthly by the American Chemical Society, Mills Building, Washington, D. C. This magazine is available in practically any large public library.

REVIEW (devoted entirely to paint and related products).

Prepared every other month by the Research Association of British Paint, Colour, and Varnish Manufacturers, published by Chorley & Pickersgill, Ltd., Norfolk St., Strand, London, W.C. 2, England.

TECHNICAL JOURNALS AND TRADE MAGAZINES

Articles on paint, varnish, lacquer, and related products may be found in a large number of technical journals and trade magazines. The following selected list is suggested:

American Paint Journal, 3713 Washington Ave., St. Louis, Mo.

The Analyst, W. Heffer & Sons, Ltd., 4 Petty Cury, Cambridge, England.

Chemical & Metallurgical Engineering, McGraw-Hill Pub. Co., 330 W. 42nd St., New York City.

Circulars of the Scientific Section, National Paint, Varnish and Lacquer Association, Inc., 2201 New York Avenue, N.W., Washington, D. C.

Drugs, Oils and Paints, 901 Cunard Buildings, Philadelphia, Pa.

Industrial & Engineering Chemistry, 706 Mills Building, Washington, D. C.

Industrial & Engineering Chemistry Analytical Edition, 706 Mills Building, Washington, D. C.

Industrial Finishing Magazine (U.S.), 802 Wulsin Building, Indianapolis, Ind.

Journal of the American Chemical Society, 706 Mills Building, Washington, D. C.

Journal of Research of the National Bureau of Standards, Government Printing Office, Washington, D. C.

Journal of the Oil & Colour Chemists Association, 30 Russell Square, London, England.

Journal of the Optical Society of America, Cornell University, Ithaca, N. Y.

Official Digest of the Federation of Paint & Varnish Production Clubs, 901 Cunard Building, Philadelphia, Pa.

Oil, Paint and Drug Reporter, 12 Gold Street, New York City.

Official Gazette of the United States Patent Office, Commissioner of Patents, Washington, D. C.

Painters Magazine, National, 12 Gold Street, New York City.

Paint, Colour, Oil, Varnish, Ink, Lacquer Manufacture,
231-2 Strand, W. C. 2, London, England.

Paint, Oil and Chemical Review, 537 So. Dearborn St.,
Chicago, Ill.

NATIONALLY KNOWN SCIENTIFIC & TECHNICAL SOCIETIES

AND TRADE ASSOCIATIONS

The following organizations publish information on paint, varnish, lacquer and related products:

AMERICAN CHEMICAL SOCIETY,
706 Mills Building, Washington, D. C.

<u>Price</u>	<u>Title</u>
\$7.50 year	Industrial & Engineering Chemistry, issued monthly
\$2.00 year	Industrial & Engineering Chemistry, Analytical Edition, six times a year
\$12.00 year	Chemical Abstracts, semi-monthly.

AMERICAN SOCIETY FOR TESTING MATERIALS,
260 South Broad St., Philadelphia, Pa.

<u>Price</u>	<u>Title</u>
\$6.00	Proceedings, issued yearly Part I - Committee Reports
\$6.00	Part II - Technical Papers

Included are the following committees:

D-1, Paint, varnish, Lacquer & Allied Products
D-3, Bituminous Waterproofing & Roofing Materials
D-17, Naval Stores

<u>Price</u>	<u>Title</u>
\$7.50	Standards, issued every 3 years (next in 1936) Part I - Metals
\$7.50	Part II - Non-Metallic Materials
\$1.25	Symposium on Paint & Varnish Materials
\$1.75	Preservative Coatings (A.S.T.M. standard specifications)

AMERICAN ZINC INSTITUTE, INC.,
60 East 42nd Street, New York, N. Y.

<u>Price</u>	<u>Title</u>
Free	Metallic zinc paint

FEDERATION OF PAINT & VARNISH PRODUCTION CLUBS,
901 Cunard Building, 220 South 16th Street,
Philadelphia, Pa.

<u>Price</u>	<u>Title</u>
\$5.00	"Official Digest" (contains excellent articles of year a technical nature)

INTERNATIONAL SOCIETY OF MASTER PAINTERS AND DECORATORS,
125 North Jefferson Avenue, Peoria, Ill.

<u>Price</u>	<u>Title</u>
\$2.00	Painting and decorating working methods (Theo. Audel & Co., Publishers, 65 West 23rd Street, New York, N. Y.) (a very practical book on painting)

LEAD INDUSTRIES ASSOCIATION,
420 Lexington Avenue, New York, N. Y.

<u>Price</u>	<u>Title</u>
Free	Selecting the proper paint

NATIONAL LIME ASSOCIATION,
927 Fifteenth Street, N.W., Washington, D. C.

<u>Price</u>	<u>Title</u>
Free	Whitewash and cold water paints (best information on the subject that has come to our attention)

NATIONAL PAINT, VARNISH AND LACQUER ASSOCIATION, INC.
 Henry A. Gardner, Director, Scientific Section,
 2201 New York Avenue, N. W., Washington, D. C.

This Section has issued over 500 circulars on various problems relating to the paint industry. These publications are highly instructive and many of them are of a very practical nature. Inquiries should be addressed directly to the Association. A few selected publications of particular interest to home owners are as follows:

<u>Series</u>	<u>Price</u>	<u>Title</u>
C 147	-	Suggestions on painting cement construction
C 327	-	Painting stucco surfaces
C 428	-	Construction defects
C 515	-	Priming and painting brick structures
C 475	-	Mildew prevention

NATIONAL RESEARCH COUNCIL,
 Washington, D. C.

<u>Price</u>	<u>Title</u>
\$10.00	Marine structures, their deterioration and preservation, by W. G. Atwood & A. A. Johnson

PORTLAND CEMENT ASSOCIATION,
 National Press Building, Washington, D.C.

<u>Price</u>	<u>Title</u>
Free	Portland cement stucco (contains suggestions on painting)

PUBLICATIONS OF SOME PIGMENT PRODUCERS

ALUMINUM COMPANY OF AMERICA,
 Pittsburgh, Pa.

Aluminum paint specifications (authoritative specifications for aluminum Paint

Aluminum paint.

Aluminum paint in the protection of wood.

THE EAGLE-PICHER LEAD COMPANY,
Temple Bar Bldg., Cincinnati, Ohio.

Fighting rust with sublimed blue lead (an excellent book
on the use of blue lead)

Eagle tinting and mixing guide (contains formulas for
tinting white lead)

THE O. HOMMEL COMPANY,
Pittsburgh, Pa.

The why and how of bronze powder.

NATIONAL LEAD COMPANY,
111 Broadway, New York.

Dutch Boy Quarterly

The handbook on painting (an excellent booklet on white
lead paint formulas)

Structural metal painting (an excellent booklet on red
lead paint formulas)

Color pack for painters (contains formulas for tinting
white lead, together with color
chips)

NEW JERSEY ZINC COMPANY,
160 Front Street, New York City.

Metallic zinc powder in industrial paint.

Light reflection value of color in paint.

Painting galvanized iron and other zinc surfaces
(authoritative information on the subject).

Effect of adding zinc oxide to iron oxide paints.

PITTSBURGH-DES MOINES STEEL COMPANY,
Pittsburgh, Pa.

<u>Series</u>	<u>Price</u>	<u>Title</u>
Tech. Bul. 3304	Free	Final report on Ambridge tests of paints for water tank interiors

In addition to the above, many leading paint and varnish
manufacturers issue free booklets covering the various uses of
their products.

BIBLIOGRAPHY OF SOME SELECTED BOOKS ON PAINT, PAINTING, VARNISH,
LACQUER, BITUMINOUS MATERIALS, AND RELATED SUBJECTS

Obviously a complete list of books on paint and related subjects would be extremely cumbersome. Therefore, the following list of books, classified as to subject matter, has been selected as being of most probable value to the reader. Frequently within a certain group, one or two outstanding books on the subject are recommended. Cross references to books in other groups are given.

In the following list, the prices are those given at the time this publication was written. The books may be purchased (unless otherwise stated) from one or more of the following firms, as indicated by the abbreviations before each book; most of the books may be consulted in large public libraries:

- a = American Paint Journal Co., 3713 Washington Avenue,
St. Louis, Missouri.
- b = P. Blakiston's Son & Company, Inc., 1012 Walnut St.,
Philadelphia, Pa.
- m = The Macmillan Company, 60 Fifth Avenue, New York City.
- o = Oxford University Press, 114 Fifth Avenue, New York City.
- p = Paint, Oil and Chemical Review, 537 South Dearborn
Street, Chicago, Ill.
- pm = The Painters Magazine, 12 Gold Street, New York City.
- r = Reinhold Publishing Corporation, 330 West 42nd St.,
New York City.
- v = D. Van Nostrand Company, Inc., 250 Fourth Avenue,
New York City.
- w = John Wiley & Sons, Inc., 440 Fourth Avenue, New York
City.

Automobile Painting

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
1.	r and *	\$3.50	Miskella, Wm. J., Practical automotive lacquering. *Finishing Research Laboratories, Inc., Chicago, Ill.
2.	a, pm	\$3.00	Pearce, Marvin, J., Modern automobile painting
3.	a, pm	\$1.50	Vanderwalker, F. N., Automobile painting

No. 1, published in 1928, is of particular interest to the reader interested in the modern use of pyroxylin lacquer, using spraying equipment; No. 3 treats more of the older types of automobile and carriage painting.

Bitumens (asphalts, coal-tars, pitches, etc.)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
4.	a,r, p.	\$10.00	Abraham, Herbert, Asphalts and allied substances
5.	r	\$5.50	Broome & Child, The testing of bituminous mixtures
6.	r	\$10.00	Bunbury, H. M., & Davidson, A., Industrial application of coal-tar products
7.	r	\$7.50	Cross, Roy, A handbook of petroleum, asphalt and natural gas
8.	v,a	\$6.00	Langton, H. M., Blacks and pitches

No. 4 is generally considered the standard reference book on the subject.

Casein & Glue (Cold Water Paints)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
9.	r	\$6.00	Bogue, R. H., Chemistry and technology of gelatin and glue
10.	r		Sutermeister, E., Casein and its industrial applications (Revised edition by F. L. Browne in preparation)

Both Nos. 9 and 10 are valuable references; the revised edition of No. 10 will be available, probably, in the Fall of 1936.

Color - Color Mixing - Color Guides - Coal-Tar Colors

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
11.	a	\$37.50 & \$45.00	Bauman's color guides
12.	a	\$1.00	Bustanoby's how to mix colors
13.	r	\$10.00	Green, A. G. A systematic survey of the organic coloring matters
14.	r, a, p.	\$12.00	Maerz, A. and Paul, M. R. A dictionary of color
15.	a, r	\$3.50	Miskella, W. J., Practical Color Simplified
16.	r	\$10.00	Schultz, G., and Julius P., Systematic survey of the organic colouring matters
17.	a, b	\$7.50	Taylor, E. J., Color harmony keyboard, charts
18.	a, pm	\$2.00	Vanderwalker, F. N., Mixing of colors and paint
19.	C.Griffin & Co., London	\$5.00	Zerr, G., and Mayer, C., Tests for coal-tar colors in aniline lakes
20.	G.E. Stechert & Co., N.Y.C.	\$16.65	Zerr, G., and Rubencamp, R., and Mayer, C. A treatise on color manufacture

Nos. 11, 12, 15, 17 and 18 are helpful to those interested in color mixing and tinting; No. 14 contains printed color plates and is the most extensive dictionary of color as yet published; Nos. 13, 16, 19 and 20 are of interest to technical men and paint manufacturers; see also references 45, 46, 48, 49, 51, 52, 73 and 75 - 52 containing formulas for tinting white lead.

Drying Oils

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
21.	b, r	\$7.50	Allen, A. H., Commercial organic analysis, Vol. II - Fixed oils, fats and waxes
22.	r	\$6.00	Andes, L. E., Vegetable fats and oils
23.	-	-	Armitage & Stevens. A very complete study of china wood oil appeared in 1914. Published and privately distributed by the authors. A formulary by Mr. Stevens, giving valuable data appeared in 1924. Geo. H. Stevens, 845 Broad Street, Newark, N.J.
24.	r	\$8.00	Chalmers, T. W., The production and treatment of vegetable oils
25.	r	\$6.00	Holde-Mueller, Examination of hydrocarbon oils and of saponifiable fats and waxes
26.	r, a, p	\$6.50	Jamieson, George S., Vegetable fats and oils.
27.	m, r		Lewkowitsch, J., Chemical technology and analysis of oils, fats and waxes, Vol. I
		\$12.00	Vol. II
		\$14.00	Vol. III
		\$12.00	
28.	r, a, p	\$8.00	Morrell, R. S., and Wood, H. R., The Chemistry of drying oils
29.	a, r	\$3.50	Pickard, Glenn H., Lesser-used drying oils

Nos. 21, 26, 27 and 28 are the standard authorities on the chemistry of oils, the outstanding book being No. 27; No. 24 describes the industrial side of the subject.

Formularies - Encyclopedias - Paint QuestionsAnswered, Etc.

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
30.	a, r	\$6.00	Bennett, H., Chemical formulary
31.	Drugs, Oils & Paints, Phila., Pa.	\$1.50	Heckel, George B., The new paint, varnish and lacquer catechism
32.	r, a, p	\$4.00	Hiscox, Gardner D., Henley's 20th century book of recipes, formulas and processes
33.	r, a, p	\$5.50	Hopkins, Albert A., Scientific American cyclopedia of formulas
34.	Scott, Greenwood & Company, London	\$5.00	Hurst, G. H., Dictionary of chemicals and raw materials used in the manufacture of paints, colors, varnishes and allied materials
35.	r	\$12.50	Kingzett, C. T., Chemical encyclopedia
36.	a, pm	\$2.00	Maire, F., Modern painter's cyclopedia
37.	pm, p	\$2.00	1995 Paint questions answered
38.	-	-	Scott, W. G., Formulas, processes and comments on paints, oils and varnish. Paint, Oil & Chemical Review, 537 So. Dearborn St., Chicago, Ill., Supplement No. 1 - 103. September 5, 1923 to March 1, 1928.

Nos. 30 to 38 inclusive are of interest to technical men and general users of paint and varnish; No. 31 is newly revised; No. 37 is very popular, and contains much practical information.

House Painting - Interior and Exterior

(Practical Books on Painting)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
39.	a, pm	\$2.00	Crannel, W. P., Practical estimating for painters and decorators
40.	pm	\$3.00	Ehrhardt, John, Estimating, painting and decorating
41.	a, *pm also	\$1.50	Kelly, A. Ashmun, *Expert calciminer
42.		\$1.50	*Expert estimator and business book for painters
43.		\$2.50	*Expert interior decorator
44.		\$1.50	Painting trade handbook
45.		\$3.50	*Expert house painter
46.		\$1.25	*Expert paint mixer
47.	a, pm	\$3.00	Patton and Vaughn, Furniture, furniture finishing, decoration and patching
48.	a, pm	\$2.00	Vanderwalker, F. N., House painting methods with the brush and spray gun
49.		\$3.00	Interior wall decoration
50.		\$1.00	New stencils and their uses
51.		\$2.00	Painting and decorating working methods
52.	w, p	\$1.80	Sabin, A. H., House painting
53.	a	\$3.50	Young, Charles L., Practical painting and paperhanging
54.	a	\$3.00	Zahn, Bert, Silk screen methods of reproduction

Nos. 39 to 54 inclusive are of particular interest to the reader with no knowledge of chemistry, but who desires practical information on the art of house painting; Nos. 45, 48, 49 and 51 are particularly useful, but all the references give valuable information; No. 52 contains formulas for tinting white lead. See also references 31 and 37.

Lacquers

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
55.	r, a, p	\$7.50	Brown, Bruce K., and Crawford, Francis M., Survey of nitrocellulose lacquer
56.	r, a	\$4.00	Daniels, R. G., Manufacture of nitrocellu- lose lacquers
57.	r		Long, J. S., Raw materials of lacquer manufacture (in preparation)
58.	r, a, p	\$2.25	Smith, Stanley, Cellulose lacquers
59.	v, p	\$4.50	Sproxtton, F., Cellulose ester varnishes
60.	v, r, a, p, pm	\$3.50	Wilson, Samuel P., Pyroxylin enamels and lacquers
61.	r	\$40.00	Worden, E. C., Technology of cellulose esters (Vol. 1 in 5 parts)
62.	r, a, v, p	\$7.00	Zimmer, Fritz, and Cameron, H. K., Nitro- cellulose ester lacquers

No. 61 contains an invaluable compilation of data, containing over 80,000 references to the literature; no. 55 likewise contains a bibliography of the literature and patents on nitro-cellulose lacquer; Nos. 56, 57, 58, 59, 60 and 62 are valuable to both the manufacturer and the user of lacquers, Nos. 59 and 60 being especially useful. See also reference 98.

Paints

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
63.	p	\$9.00	Bearn, J. G., Chemistry of paints, pigments and varnishes
64.	r	\$4.50	Edwards, Junius D., Aluminum paint and powder (1936 edition)
65.	r, a, v, p	\$6.50	Fox, J. J., and Bowles, T. H., Analysis of pigments, paints and varnishes

Paints (continued)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
66.	a, r, p and *	\$11.00	Gardner, H. A., Physical and chemical examination of paints, varnishes, lacquers and colors *Institute of Paint & Varnish Research, 2201 New York Ave., N.W., Washington, D. C.
67.	a, r	\$3.00	Papers on paint and varnish and the materials used in their manufacture
68.	r, a, p	\$8.00	Heaton, Noel, Outlines of paint technology
69.	w	\$2.50	Holley, C.D., Analysis of paint and varnish products
70.	w, a, p	\$2.50	Analysis of paint vehicles, japans and varnishes
71.	w	\$3.00	Holley, C. D., and Ladd, E. F., Analysis of mixed paints, color pigments and varnishes
72.	v		Jennings, A. S., Painting by immersion and by compressed air
73.	r	\$5.00	Paint and color mixing
74.	r, v	\$5.00	Morrell, R. S., and Waele, A. de., Rubber, resins, paints and varnishes
75.	w, a, r, p	\$5.00	Sabin, A. H., The industrial and artistic technology of paint and varnish
76.	v	\$5.00	Smith, J. Cruickshank, The manufacture of paint
77.	v	\$5.00	Toch, M., Paint, paintings and restoration
78.	v, a, r	\$5.00	Chemistry and technology of paints
79.	pm, p	\$6.00	Uebele, C. L., Paint making and color grinding

Nos. 65, 66, 69, 70, 71 and 74 are technical books on testing, written from the standpoint of the chemist; Nos. 65 and 66 being outstanding; Nos. 76 and 79 are essentially for the manufacturer; the rest are of interest to both technical men and general users of paint and varnish, Nos. 67, 68, 75 and 78 being particularly useful to the consumer; No. 64 gives authoritative information on aluminum paint; No. 72 (price not given) may be out of print.

Pigments

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
80.	p	\$6.00	Curtis, C. A., Artificial organic pigments
81.	a, r, v, p	\$1.75	Faloon D. B.; Zinc oxide
82.	r	\$6.00	Harrison, A. W. C., Manufacture of lakes and precipitated pigments
83.	w	\$3.00	Holley, C. D., Lead and zinc pigments
84.	r, p	\$6.00	Jennison, F. H., The manufacture of lake pigments from artificial colors
85.	w, a, r, p	\$1.25	Sabin, A. H., White-lead, its use in paint
86.	w, r, p	\$2.00	Red-lead and how to use it in paint
87.	v	\$2.50	Weber, F. W., Artists' pigments

Nos. 80, 82 and 84 are of particular interest to manufacturers; the rest are of interest to technical men and general users of paint and varnish; Nos. 85 and 86 are particularly useful to the consumer interested in the use of red lead and white lead in paint. See also references 13, 16, 19, 20, 34, 36, 37, 63, 64, 65, 66, 68, 71, 75, 76, 78 and 79.

Resins - Natural & Synthetic

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
88.	r, a, v	\$15.00	Barry, T. Hedley, Natural varnish resins
89.	r, a, p	\$10.50 per set	Ellis, Carleton, The chemistry of synthetic resins (Volumes I and II)

Resins - Natural & Synthetic (continued)

- | | | | |
|-----|------------|--------|--|
| 90. | r | \$3.50 | Parry, Ernest J., Shellac, its production,
manufacture, chemistry, analysis,
commerce and uses |
| 91. | r, a,
p | \$7.50 | Scheiber, J., and Sandig, K., Artificial
resins |

Nos. 88, 89, 90 and 91 seem to be the outstanding books on the subject; 88 particularly for natural resins and 89 for synthetic resins; 90 (published in 1935) is valuable for its information on shellac.

See also references 66, 92, 93, 94, 97 and 98. The last named (98) contains valuable information on many of the materials used in cellulose lacquer manufacture.

Varnishes

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
92.	r, a	\$4.00	Barry, T. H., & Dunster, G. W., Varnish making
93.	w, p.	\$3.75	Bottler, M., Sabin, A. H., German and American varnish making
94.	r, a, v, p	\$8.00	Coffignier, C., Varnishes, their chemistry and manufacture
95.	r, a, v, p	\$5.00	Colours and varnishes
96.	a, r	\$2.00	Joachim, Benjamin, Applied paint and varnish chemistry
97.	v		McIntosh, J. G., Manufacture of varnishes and kindred industries. Based on and including the "Drying Oils and Varnishes" by Ach. Livache
		\$7.00	Vol. I - Linseed oil & other varnish oils Vol. II - Varnish materials & oil varnish Vol. III - Spirit varnishes & materials (new editions of Volumes II and III in preparation)
98.	o, a, p	\$8.50	Morrell, R. S., Varnishes and their components

LC 473

Nos. 92 to 98 inclusive are all valuable to the reader interested in varnish, the last named (98) being of most probable value in this group, except synthetic resins are not covered (refer to reference 89 for this information). See also references 65, 66, 70, 71, 74, and 75.

Volatile Solvents and Thinners
(including Naval Stores)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
99.	r, a, v, p	\$5.00	Durrans, Thos. H., Solvents for nitro-cellulose
100.	*	\$3.25	Gamble, T., Naval Stores - History, production, distribution & consumption *Review Publishing & Printing Co., Savannah, Georgia.
101.	r	\$3.00	Hawley, L. F., Wood distillation
102.	r, a, v, p	\$6.00	Heaton, Noel, Volatile solvents and thinners
103.	r	\$7.25	Lawrie, Jas. W., Glycerol and the glycols
104.	r	\$6.00	McIntosh, J. G., Industrial alcohol
105.	a, r	\$.50	Pickard, Glenn H., Volatile thinners
106.	r	\$4.00	Robinson, C. S., The recovery of volatile solvents
107.	r		Sabatier, P., Catalysis in organic chemistry (new edition in preparation)
108.	o	\$5.00	Weissberger & Proskauer, Organic solvents
109.	r	\$10.00	Young, Sydney, Distillation principles and processes

Nos. 99, 102, 105 and 108 are valuable to the reader interested in obtaining information on solvents and thinners; 101 is an excellent book on the preparation of wood distillation products (acetone, wood alcohol, etc.); 104 gives excellent information on the preparation and properties of ethyl alcohol, fusel oil, and

amyl and ethyl acetates; 107 contains valuable information and references; 105 can be read without a knowledge of chemistry; 106 contains many valuable data; 109 gives an excellent account of the manufacture of butyl alcohol.

Wood Finishing (Graining, Staining, Marbling,

Polishing, Varnishing, Shellacking, Etc.

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
110.	a, pm	\$1.50	Hodgson, Fred. T., New hardwood finishing
111.	a	\$1.50	Jeffrey, Harry R., Wood finishing
112.	a, pm	\$3.00	Kelly, A. A., Expert wood finisher
113.	a	\$2.00	Standard grainer, stainer and marbler
114.	*	\$1.50	Lowndes, W. S., Painting and wood finishing *David McKay Co., 604 S. Washington Square, Philadelphia, Pa.
115.	r, a and *	\$3.50	Newell, A. C., Coloring, finishing and painting wood *The Manual Arts Press, Peoria, Ill.
116.	r	\$3.00	Parkhouse, A. W., Practical polishing and staining
117.	a, r, and *	\$5.00	Schmidt, W. K., Problems of the finishing room (for wood) *The Periodical Publishing Co., Grand Rapids, Mich.
118.	a, pm	\$2.00	Vanderwalker, F. N., Wood finishing, plain and decorative
119.	pm	\$20.00	Van der Burg, Graining and marbling
120.	a	\$5.00	Wall, William E., Graining, ancient and modern

Nos. 110 to 120 inclusive are of interest to the reader, with or without a knowledge of chemistry, who desires expert advice on the art of wood finishing; 112 is one of the best

known books on the subject; 113, 119 and 120 give information on the subject of graining; 114 contains a large number of color plates, and a large amount of information concerning the art of imitating various woods and marbles; 118 like 112 is a very practical book including every phase of wood finishing. See also references 37, 43 and 51.

Painting, Enameling, Japanning, Lac Uering,

Particularly on Metal

No. Sold by Price

- | | | | |
|------|---------|--------|--|
| 121. | r and * | \$3.50 | Hickell, W. J., Practical japanning and enameling |
| 122. | r and * | \$3.50 | Practical railway painting and lacquering
Finishing Research Laboratories,
Chicago, Ill. |

No. 121 gives valuable and practical information on baked japans and enamels, design of baking ovens, spray method of application, methods of cleaning and preparing the surface, etc.; 122 gives very practical information on railway painting and lacquering.

See also references 1, 37, 64, 66, 75, 78 and 86

Miscellaneous

No. Sold by Price

- | | | | |
|------|-------|--------|---|
| 123. | a, pm | \$4.00 | Atkinson, F. H., Art of sign painting |
| 124. | a, pm | \$4.00 | Scene painting and bulletin art |
| 125. | pm | \$4.00 | A show at show cards |
| 126. | a | \$1.50 | Delamotte, F., The amateur artist |
| 127. | pm | \$1.50 | The signists modern book of alphabets |
| 128. | a | \$7.50 | Desaint, A., Ideas and studies in stenciling and decorating |
| 129. | a, r | \$3.50 | Heckel, G. F., The print industry -
miscellaneous and comments |

Miscellaneous (continued)

<u>No.</u>	<u>Sold by</u>	<u>Price</u>	
130.	a	\$.35	Joachim, Benjamin, The causes, diagnosis and possible elimination of failures of interior architectural paints
131.	a, r	\$.50	Paint and varnish formulation
132.	a	\$6.00	Stokes, Adrian, Landscape painting
133.	a, pm	\$4.00	Strong, Chas. J., Art of show card writing
134.	a	\$1.00	Gilding on glass, wood and metal
135.	v	\$1.25	Toch, M., How to paint permanent pictures
136.	*	-	Winsor, William, Instructions for the practice of fresco painting (1843) *Winsor & Newton, London, England

Nos. 123, 124, 125, 127 and 133 give practical information on special phases of painting, such as sign painting and show card painting; 128 gives valuable information on stenciling; 129 is an historical book of the American paint industry, written by an authority on the subject; 130 and 131 are of interest to the paint chemist, 136 is one of the best books on fresco painting, although it is an old book and may be difficult to obtain.

137. Green Book for Buyers and Sellers (names of manufacturers handling various commodities including paint, varnish, lacquer, etc.). Oil, Paint and Drug Reporter, 12 Gold Street, New York City.

